इंटरनेट मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

"जानने का अधिकार, जीने का अधिकार"
Mazdoor Kisan Shakti Sangathan
"The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ"
Jawaharlal Nehru
"Step Out From the Old to the New"

IS 1242 (1975): Handloom Cotton Shirting [TXD 8: Handloom and Khadi]

"ज्ञान से एक नये भारत का निर्माण"
Satyanarayan Gangaram Pitroda
"Invent a New India Using Knowledge"

Act Number 22 of 2005
The Indian Parliament
RIGHT TO INFORMATION

Made Available By
Public.Resource.Org

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है"
Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

BLANK PAGE

BRUTUM FULMEN

IGNORANTIA JURIS NON EXCUSAT

PROTECTED BY COPYRIGHT

Indian Standard

SPECIFICATION FOR HANDLOOM COTTON SHIRTING

(First Revision)

UDC 677·21·064 : 687·241

© *Copyright* 1975

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110001

May 1975

AMENDMENT NO. 2 MAY 1984

TO

IS:1242-1975 SPECIFICATION FOR HANDLOOM COTTON SHIRTING

(First Revision)

[This amendment is intended to make reference to the latest version of the standards referred to in the specification.]

Alterations

(*Page 4, Table 1,* 'Method of Test', *col 4 and 5*) - Substitute 'IS:1963-1981†' *for* 'IS:1963-1969†'.

(*Page 4, Table 1, foot-note with* '†' *mark*) - Substitute the following for the existing foot-note:

'†Method for determination of threads per unit length in woven fabrics (*second revision*).'

[*Page 5, Table 2* (*see also* Amendment No. 1)]:

a) *Sl No.*(ii), *col 4* - Substitute 'IS:1383-1977† (Mild method)' *for* 'IS:1383-1977†'.

b) *Sl No.*(iii)(b), *col 4* - Substitute 'IS:764-1979§' *for* 'IS:764-1966§'.

c) *Foot-note with* '§' *mark* - Substitute the following for the existing foot-note:

'§Method for determination of colour fastness of textile materials to washing: Test 3 (*second revision*).

(*Page 6, clause 6.1, line 3*) - Substitute 'IS:293-1980†' *for* 'IS:293-1967†'.

(*Page 6, foot-note with* '†' *mark*) - Substitute the following for the existing foot-note:

'†Code for seaworthy packaging of cotton yarn and cloth (*third revision*).'

(TDC 13)

Reprography Unit, ISI, New Delhi, India

Indian Standard

SPECIFICATION FOR HANDLOOM COTTON SHIRTING

(First Revision)

Handloom and Khadi Sectional Committee, TDC 13

Chairman	*Representing*
DIRECTOR OF HANDLOOMS & TEXTILES	Directorate of Handlooms & Textiles, Government of Tamil Nadu, Madras
Members	
JOINT DIRECTOR OF HANDLOOMS & TEXTILES (*Alternate* to Director of Handlooms & Textiles)	
SHRI B. P. AGARWAL	Government of Uttar Pradesh, Lucknow
SHRI C. SINGH (*Alternate*)	
SHRI P. C. AGARWAL	Ministry of Defence (R & D)
SHRI K. NAGRAJAN (*Alternate*)	
BUSINESS MANAGER	The Andhra Handloom Weavers Co-operative Society Ltd, Vijayawada
BUSINESS MANAGER	The Tamil Nadu (Madras State) Handloom Weavers' Co-operative Society Ltd, Madras
CHIEF EXECUTIVE OFFICER	Maharashtra State Khadi and Village Industries Board, Bombay
DEPUTY EXECUTIVE OFFICER (DEVELOPMENT) (*Alternate*)	
CHIEF INSPECTING OFFICER	Textiles Committee, Bombay
DEPUTY CHIEF INSPECTING OFFICER (*Alternate*)	
SHRI PARITOSH DAS	Directorate of Industries, Government of West Bangal, Calcutta
SHRI P. K. DAS (*Alternate*)	
SHRI D. S. V. IYER	All India Handloom Board, Bombay
SHRI S. P. KUMARIA	Directorate of Industries, Government of Punjab, Chandigarh
SHRI MOHINDER SINGH (*Alternate*)	
SHRI K. MANIVANNAN	Directorate of Industries, Government of Haryana, Chandigarh
SHRI C. R. YADAV (*Alternate*)	

(*Continued on page* 2)

© *Copyright* 1975

INDIAN STANDARDS INSTITUTION

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(*Continued from page* 1)

Members	*Representing*
SHRI MANUBHAI MEHTA	Gujarat Rajya Khadi Gramodyog Board, Ahmedabad
MAJ J. S. NEHRA	Ministry of Defence (DGI)
SHRI P. B. MEHTA (*Alternate*)	
PRINCIPAL, INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY, VARANASI	All India Handloom Board, Bombay
SHRI RAM KISHAN	Khadi & Village Industries Commission, Bombay
SHRI D. V. LELE (*Alternate*)	
SHRI T. RANGASWAMY	The Southern India Millowners Association, Coimbatore
SHRI H. RAMAKRISHNA RAO	All India Handloom Fabrics Marketing Co-operative Society Ltd, Bombay
SHRI K. S. GOPALA RAO (*Alternate*)	
SHRI B. P. SENGUPTA	Inspection Wing, Directorate General of Supplies & Disposals, New Delhi
SHRI A. T. BASAK (*Alternate*)	
SHRI S. M. CHAKRABORTY, Director (Tex)	Director General, ISI (*Ex-officio Member*)

Secretary

SHRI P. VENKATARAMAN
Deputy Director (Tex), ISI

Handloom and Khadi Cotton Cloth Subcommittee, TDC 13 : 1

Convener	
PRINCIPAL, INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY, VARANASI	All India Handloom Board, Bombay
Members	
SHRI B. P. AGARWAL	Government of Uttar Pradesh, Lucknow
SHRI C. SINGH (*Alternate*)	
SHRI M. S. GOKHALE	Khadi & Village Industries Commission, Bombay
SHRI S. RAMASWAMY (*Alternate*)	
SHRI B. N. GUPTA	Messrs Guptajee, New Delhi
SHRI B. R. KOWSHIK	Textiles Committee, Bombay
SHRI S. P. KUMARIA	Directorate of Industries, Government of Punjab, Chandigarh
SHRI MOHINDER SINGH (*Alternate*)	
MAJ J. S. NEHRA	Ministry of Defence (DGI)
SHRI P. B. MEHTA (*Alternate*)	
PRINCIPAL, INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY, SALEM	All India Handloom Board, Bombay
SHRI S. RANGARAJAN	The Handicrafts and Handlooms Exports Corporation of India Ltd, Madras
SHRI B. P. SENGUPTA	Inspection Wing, Directorate General of Supplies & Disposals, New Delhi
SHRI A. T. BASAK (*Alternate*)	
SPECIAL OFFICER	The Tamil Nadu (Madras State) Handloom Weavers' Co-operative Society Ltd, Madras
TEXTILE OFFICER (*Alternate*)	
SHRI T. O. THOMAS	Kerala State Handloom Weavers' Co-operative Society Ltd, Trivandrum
SHRI R. VIJAYAPPAN NAIR (*Alternate*)	

Indian Standard

SPECIFICATION FOR HANDLOOM COTTON SHIRTING

(First Revision)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 10 January 1975, after the draft finalized by the Handloom and Khadi Sectional Committee had been approved by the Textile Division Council.

0.2 This Standard which was first published in 1958 has been taken up for revision in order to make it up-to-date. The constructional particulars of such shirting which are not in vogue any more are deleted and instead the particulars of such shirting have been incorporated which are now being marketed. Other important changes carried out in the standard are:

a) deletion of breaking strength values, since the standard recommends IS : 171-1973* for yarn; and

b) inclusion of inspection, marking and packing clauses.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

---

1. SCOPE

1.1 This standard prescribes the constructional particulars and other requirements of handloom cotton shirting, bleached, dyed, striped, checked or printed.

1.2 This standard does not specify the general appearance, feel, finish or weaving and printing pattern, etc, of the shirting.

---

*Specification for grey cotton yarn (*second revision*).
†Rules for rounding off numerical values (*revised*).

2. MANUFACTURE

2.1 Constructional Particulars — Constructional particulars shall conform to those given in Table 1. These are obtainable by using yarn conforming to IS : 171-1973*.

TABLE 1 CONSTRUCTIONAL PARTICULARS OF HANDLOOM COTTON SHIRTING

Variety No.	Count of Yarn		Ends/dm	Picks/dm
	Warp	Weft		
(1)	(2)	(3)	(4)	(5)
1.	$20^s/2$ (or 30 tex × 2)	18^s (or 33 tex)	160	140 (double)
2.	$20^s/2$ (or 30 tex × 2)	20^s (or 30 tex)	170	140 (double)
3.	$20^s/2$ (or 30 tex × 2)	20^s (or 30 tex)	190	200
4.	$20^s/2$ (or 30 tex × 2)	$20^s/2$ (or 30 tex × 2)	160	145
5.	20^s (or 30 tex)	18^s (or 33 tex)	200	170
6.	20^s (or 30 tex)	20^s (or 30 tex)	130 (double)	126 (double)
7.	20^s (or 30 tex)	20^s (or 30 tex)	165 (double)	173 (double)
8.	20^s (or 30 tex)	30^s (or 20 tex)	220	205
9.	26^s (or 23 tex)	26^s (or 23 tex)	220	220
10.	$30^s/2$ (or 20 tex × 2)	$30^s/2$ (or 20 tex × 2)	190	170
11.	30^s (or 20 tex)	30^s (or 20 tex)	240	220
12.	$36^s/2$ (or 16 tex × 2)	20^s (or 30 tex)	200	180
13.	$36^s/2$ (or 16 tex × 2)	20^s (or 30 tex)	260	250
14.	$40^s/2$ (or 15 tex × 2)	20^s (or 30 tex)	280	250
15.	$40^s/2$ (or 15 tex × 2)	30^s (or 20 tex)	240	190
16.	$40^s/2$ (or 15 tex × 2)	30^s (or 20 tex)	240	200
17.	$40^s/2$ (or 15 tex × 2)	40^s (or 15 tex)	240	225
18.	40^s (or 15 tex)	40^s (or 15 tex)	280	280
19.	40^s (or 15 tex)	40^s (or 15 tex)	320	320
20.	$60^s/2$ (or 10 tex × 2)	$60^s/2$ (or 10 tex × 2)	280	220
21.	60^s (or 10 tex)	40^s (or 15 tex)	380	330
22.	$80^s/2$ (or 7·4 tex × 2)	40^s (or 15 tex)	330	330
23.	80^s (or 7·4 tex)	80^s (or 7·4 tex)	440	470
Tolerance	±5 percent	±5 percent	±5	±5
Method of Test	IS : 1315-1959*	IS : 1315-1959*	IS : 1963-1969†	IS : 1963-1969†

*Method for determination of universal count of cotton yarn.
†Method for determination of threads per decimetre in woven fabrics (*first revision*).

*Specification for grey cotton yarn (*second revision*).

3. REQUIREMENTS

3.1 The requirements of shirting shall conform to those given in Table 2.

TABLE 2 REQUIREMENTS OF HANDLOOM COTTON SHIRTING

Sl No.	Characteristic	Requirement	Method of Test
(1)	(2)	(3)	(4)
i)	Dimensional changes, percent, *Max*	2·5	IS : 2977-1969*
ii)	Scouring loss, percent, *Max*	2·5	IS : 1383-1960†
iii)	Colour fastness rating:		*See* Note
	a) Light	5 or better	
	b) Washing, Test 3	4 or better	
iv)	Length	As agreed	IS : 1954-1969‡
v)	Width	As agreed — 2 percent	IS : 1954-1969‡

NOTE — Vat dyes or azoics are recommended for dyeing or printing as these are expected to give the stipulated colour fastness rating for light and washing when tested by the methods specified in IS : 2454-1967§ or IS : 764-1966||, respectively.

*Method for determination of dimensional changes of woven fabrics (other than wool) on soaking in water.

†Method for determination of scouring loss in grey and finished cotton textile materials.

‡Method for determination of length and width of fabrics (*first revision*).

§Method for determination of colour fastness of textile materials to artificial light (xenon lamp).

||Method for determination of colour fastness of textile materials to washing : test 3 (*first revision*).

4. INSPECTION

4.1 The shirting when visually inspected should be reasonably free from the following defects (*see* IS : 4125-1967*):

a) Weft crack of more than 2 missing picks across the width of the material;

b) Prominently noticeable weft bar due to the difference in raw material, count, twist, lustre, colour, shade or pick spacing of adjacent groups of weft yarn;

*Glossary of terms pertaining to defects in fabrics.

c) More than two adjacent ends running parallel, broken or missing and extending beyond 15 cm;

d) Prominent selvedge defect;

e) Noticeable warp or weft float in the body of the material;

f) Noticeable oil or other stain in the material;

g) Noticeable hole, cut or tear up to 3 mm in size in the body of the fabric;

h) Conspicuous broken pattern;

j) Prominently noticeable printing or dyeing defect;

k) Smash definitely rupturing the texture of the material; and

m) Extensive printing or dyeing defect.

5. MARKING

5.1 Each shirting shall be suitably marked or labelled with the following information:

a) Name of the material;

b) Manufacturer's name, initials or trade-mark;

c) Length and width of shirting;

d) Count of warp and weft yarn; and

e) The words ' Fast Colour ' in case of dyed and printed shirting.

5.1.1 The shirting may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

6. PACKING

6.1 Unless otherwise agreed upon by the buyer and the seller the shirting shall preferably be packed in bales or cases in conformity with the procedure laid down either in IS : 1347-1972* or IS : 293-1967†.

---

*Code for inland packaging of cotton cloth and yarn (*first revision*).
†Seaworthy packaging of cotton cloth and yarn (*second revision*).

INDIAN STANDARDS

ON

HANDLOOM COTTON FABRICS

IS :

745-1975 Handloom cotton bed sheets (*first revision*)
748-1974 Handloom cotton dhotis (*first revision*)
749-1955 Handloom cotton dungri cloth, grey
750-1956 Handloom cotton lungies, striped or checked
752-1955 Handloom cotton muslin, bleached
753-1955 Handloom cotton pugri cloth, bleached or dyed
754-1974 Handloom cotton saries (*first revision*)
755-1955 Handloom cotton malmal, bleached
756-1955 Handloom cotton dosuti, grey, scoured, bleached or dyed
757-1971 Handloom cotton lint, absorbent, bleached (*first revision*)
758-1969 Handloom cotton gauze, absorbent (*revised*)
854-1956 Handloom cotton turkish towels, bleached, striped, checked or dyed
855-1956 Handloom cotton honeycomb towels, bleached, striped, checked or dyed
856-1971 Handloom cotton huckaback towels (*first revision*)
857-1956 Handloom cotton napkins, bleached, striped, checked or dyed
858-1969 Handloom cotton table cloth, bleached, striped, checked or dyed
859-1956 Handloom cotton dusters, grey, striped and checked
860-1956 Handloom cotton sponge cloth, grey, striped and checked
861-1956 Handloom cotton jaconet cloth, grey, dressed
862-1956 Handloom cotton ticking cloth, grey, striped
863-1969 Handloom cotton bandage cloth (*revised*)
864-1956 Handloom cotton light sheeting, grey
1093-1957 Handloom cotton Madras handkerchiefs
1094-1957 Handloom cotton gada cloth, grey
1095-1957 Handloom cotton dress materials, bleached, dyed, printed, striped or checked
1096-1957 Handloom cotton Holland cloth, unscoured
1097-1957 Handloom cotton mosquito netting, bleached or dyed
1098-1957 Handloom cotton cambric, bleached
1099-1957 Handloom cotton lining cloth, dyed
1100-1957 Handloom cotton crepe, bleached or dyed
1101-1957 Handloom cotton cellular, shirting, bleached or dyed
1102-1963 Handloom buckram cloth (*revised*)
1240-1958 Handloom cotton nainsook, bleached or dyed
1241-1958 Handloom cotton calico, bleached or dyed
1242-1975 Handloom cotton shirting (*first revision*)
1243-1958 Handloom cotton coating, bleached, dyed, striped or checked
1244-1958 Handloom cotton long cloth, bleached or dyed

1245-1958	Handloom cotton pyjama cloth, grey, with stripes
1246-1958	Handloom cotton curtain cloth, bleached, dyed, striped, checked or printed
1247-1958	Handloom cotton Madras check
1451-1959	Handloom cotton drills, bleached or dyed
1556-1960	Handloom cotton poplin, bleached or dyed
1579-1960	Handloom cotton twills, bleached or dyed
1814-1961	Handloom cotton mootus, striped or checked
1937-1961	Handloom cotton bleeding Madras
1939-1975	Handloom cotton handkerchiefs (*first revision*)
2158-1962	Handloom viscose staple fibre lungies, striped or checked
2159-1962	Handloom viscose staple fibre shirting, bleached, dyed, striped or checked
2160-1962	Handloom viscose staple fibre coating, bleached, dyed, striped or checked
2172-1962	Handloom filament rayon saries
2715-1964	Handloom cloth, collar, white
6237-1971	Handloom cotton cloth for plaster of Paris bandages and cut bandages
6906-1973	Requirements for colour fastness of handloom cotton textiles
7216-1974	Handloom cotton angavastram

PUBLICATIONS OF INDIAN STANDARDS INSTITUTION

INDIAN STANDARDS

Over 8 000 Indian Standards covering various subjects have been issued so f r Of these, the standards belonging to the Textile Group fall under the following categories.

- Aeronautical textiles
- Chemical test methods
- Colour fastness of textile materials
- Cotton fabrics – handloom khadi and mill made
- Dyestuffs
- Grading of fibres and yarns
- Grading of raw silk
- Hosiery
- Jute – bags and fabrics
- Jute mill accessories
- Narrow fabrics
- National flag of India
- Nylon fabrics
- Packaging code
- Physical test methods
- Rayon fabrics
- Rayon fabrics, handloom
- Ropes and cordages
- Sampling of textiles, methods for
- Silk fabrics — handloom and khadi
- Sizing and finishing materials
- Spinning machinery components
- Terminology
- Textile floor coverings
- Textile materials for fishing
- Textile mill accessories (other than jute mills)
- Twines
- Weaving machinery components
- Wool fabrics — handloom, khadi, and mill made
- Yarn and similar structures
- Unclassified

OTHER PUBLICATIONS

ISI Bulletin (Published Every Month)	
Single Copy	Rs 4 00
Annual Subscription	Rs 36 00
Standards Monthly Additions	
Single Copy	Rs 0 30
Annual Subscription	Rs 3 00
Annual Reports (from 1948-49 Onwards)	Rs 2 00 to 6 00
ISI Handbook, 1975	Rs 30 00

INDIAN STANDARDS INSTITUTION

Manak Bhavan 9 Bahadur Shah Zafar Marg NEW DELHI 110001

Telephone . 27 01 31 (20 lines) **Telegrams : Manaksanstha**

Branch Offices	Telephone
'Sadhna' Nurmohamed Shaikh Marg Khanpur AHMEDABAD 380001	2 03 91
F Block, Unity Bldg Narasimharaja Square BANGALORE 560002	2 76 49
531 Sardar Vallabhbhai Patel Road BOMBAY 400007	35 69 44
5 Chowringhee Approach CALCUTTA 700013	23 05 62
Kothi No 90 Sector 18A CHANDIGARH	2 83 20
5 8 56 57 Nampally Station Road HYDERABAD 500001	4 57 11
117 118 B Sarvodaya Nagar KANPUR 208005	82 72
54 General Patters Road MADRAS 600002	8 37 81
B C I Bldg (Third Floor) Gandhi Maidan East PATNA 800004	2 56 55

Printed at Caslon Press, New Delhi, India

AMENDMENT NO. 1 FEBRUARY 1978

TO

IS : 1242-1975 SPECIFICATION FOR HANDLOOM COTTON SHIRTING

(First Revision)

Alterations

(*Page* 4, *Table* 1, *Col* 4 *and* 5, against 'TOLERANCE') — Substitute '± 5 percent' *for* '±5' at both the places.

(*Page* 5, *Table* 2) — Substitute the following for the existing table:

TABLE 2 REQUIREMENTS OF HANDLOOM COTTON SHIRTING

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
(1)	(2)	(3)	(4)
i)	Dimensional changes, percent, *Max*	2·5	IS : 2977-1964*
ii)	Scouring loss, percent, *Max*	2·5	IS : 1383-1977†
iii)	Colour fastness rating:		
	a) Light	5 or better	IS : 2454-1967‡
	b) Washing	4 or better	IS : 764-1966§
iv)	Length	As agreed	IS : 1954-1969¶
v)	Width	As agreed	IS : 1954-1969¶
	TOLERANCE	— 2 percent	

*Method for determination of dimensional changes of woven fabrics (other than wool) on soaking in water.

†Method for determination of scouring loss in grey and finished cotton textile materials (*first revision*).

‡Method for determination of colour fastness of textile materials to artificial light (xenon lamp).

§Method for determination of colour fastness of textile materials to washing : Test 3 (*first revision*).

¶Method for determination of length and width of fabrics (*first revision*).

(TDC 13)

Reproduced by Reprography Unit, ISI, New Delhi

AMENDMENT NO. 2 MAY 1984

TO

IS:1242-1975 SPECIFICATION FOR HANDLOOM COTTON SHIRTING

(First Revision)

[This amendment is intended to make reference to the latest version of the standards referred to in the specification.]

Alterations

(*Page 4, Table 1,* 'Method of Test', *col 4 and 5*) - Substitute 'IS:1963-1981†' *for* 'IS:1963-1969†'.

(*Page 4, Table 1, foot-note with* '†' *mark*) - Substitute the following for the existing foot-note:

'†Method for determination of threads per unit length in woven fabrics (*second revision*).'

[*Page 5, Table 2* (*see also* Amendment No. 1)]:

a) *Sl No.*(ii), *col 4* - Substitute 'IS:1383-1977† (Mild method)' *for* 'IS:1383-1977†'.

b) *Sl No.*(iii)(b), *col 4* - Substitute 'IS:764-1979§' *for* 'IS:764-1966§'.

c) *Foot-note with* '§' *mark* - Substitute the following for the existing foot-note:

'§Method for determination of colour fastness of textile materials to washing: Test 3 (*second revision*).'

(*Page 6, clause 6.1, line 3*) - Substitute 'IS:293-1980†' *for* 'IS:293-1967†'.

(*Page 6, foot-note with* '†' *mark*) - Substitute the following for the existing foot-note:

'†Code for seaworthy packaging of cotton yarn and cloth (*third revision*).'

(TDC 13)

Reprography Unit, ISI, New Delhi, India